

IN THE CLAIM

1 1. (Currently Amended) A method for allocating [a] an N number of registers ~~for use in~~
2 ~~conjunction with modification of a block of programming code~~, comprising the
3 steps of:
4 identifying a first statement allocating registers, the first statement is
5 associated with a block of programming code;
6 identifying first parameters ~~associated with~~ used in the first statement; and
7 by using the number N and the first parameters as inputs, generating ~~new~~
8 second parameters for use in ~~the~~ a second statement to allocate the
9 N number of registers, which are for use in code instrumentation of
10 the block of programming code.

1 2. (Currently Amended) The method of claim 1 wherein the first parameters and the ~~new~~
2 second parameters each include a parameter identifying a number I of input
3 registers, a parameter identifying a number L of local registers, and a parameter
4 identifying a number O of output ~~parameters~~ registers.

1 3. (Currently Amended) The method of claim 2 wherein the step of generating ~~new~~ the
2 second parameters comprises the step of modifying the number O of the first
3 parameters to generate the number O of the ~~new~~ second parameters.

1 4. (New) The method of claim 2 wherein the step of generating the second parameters
2 comprises the step of using the number N and the number O of the first parameters
3 as inputs in generating the number O of the second parameters.

1 5. (New) The method of claim 2 wherein the number O of the second parameters equals
2 the number N plus the number O of the first parameters.

1 6. (New) A computer-readable medium embodying instructions for performing a method
2 for allocating an N number of registers, the method comprising the steps of:
3 identifying a first statement allocating registers, the first statement is
4 associated with a block of programming code;
5 identifying first parameters used in the first statement; and
6 by using the number N and the first parameters as inputs, generating
7 second parameters for use in a second statement to allocate the N
8 number of registers, which are for use in code instrumentation of
9 the block of programming code.

1 7. (New) The computer-readable medium of claim 6 wherein the first parameters and the
2 second parameters each include a parameter identifying a number I of input
3 registers, a parameter identifying a number L of local registers, and a parameter
4 identifying a number O of output registers.

1 8. (New) The method of claim 7 wherein the step of generating the second parameters
2 comprises the step of modifying the number O of the first parameters to generate
3 the number O of the second parameters.

1 9. (New) The method of claim 7 wherein the step of generating the second parameters
2 comprises the step of using the number N and the number O of the first parameters
3 as inputs in generating the number O of the second parameters.

1 10. (New) The method of claim 7 wherein the number O of the second parameters equals
2 the number N plus the number O of the first parameters.

1 11. (New) A system allocating an N number of registers, comprising:
2 a first statement allocating registers, the first statement is associated with a
3 block of programming code;
4 means for identifying first parameters used in the first statement; and
5 means for generating second parameters for use in a second statement to
6 allocate the N number of registers, which are for use in code
7 instrumentation of the block of programming code;
8 wherein generating the second parameters uses the number N and the first
9 parameters as inputs.

1 12. (New) The system of claim 11 wherein the first parameters and the second parameters
2 each include a parameter identifying a number I of input registers, a parameter
3 identifying a number L of local registers, and a parameter identifying a number O
4 of output registers.

1 13. (New) The system of claim 12 wherein generating the second parameters comprises
2 modifying the number O of the first parameters to generate the number O of the
3 second parameters.

1 14. (New) The system of claim 12 wherein generating the second parameters comprises
2 using the number N and the number O of the first parameters as inputs in
3 generating the number O of the second parameters.

- 1 15. (New) The system of claim 12 wherein the number O of the second parameters equals
- 2 the number N plus the number O of the first parameters.